



ENERGY-CONSERVING COMMUNICATION APPARATUS REMOTELY REACHABLE FOR
ESTABLISHING INSTANT COMMUNICATIONS

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ABSTRACT

10 An energy-conserving computer or information communication apparatus is rendered to comprise a keep-
alive communication circuit, keep-alive memory circuitry, keep-alive control means, and keep-alive
operating instructions so as to be remotely reachable for establishing instant communications without
consuming main energy. Most preferred is to utilize a power source carried on a signal-transmitting phone
line or cable as keep-alive power. Also disclosed is an energy-conserving operating system capable of
15 selectively entering a keep-alive state in which only limited instructions are resident on keep-alive RAM
circuitry, and a normal state in which operating instructions are fully loaded to main RAM circuitry for
execution. Further disclosed is an Internet communication system capable of sending ring signals to the
energy-conserving communication apparatuses or computers, so as to enable an Internet service provider to
offer requested communications thereto. Consequently, for the first time, the energy-conserving
20 communication apparatuses or computers can stay normally offline (like telephones) for establishing
instant and universal communications therebetween via the Internet.